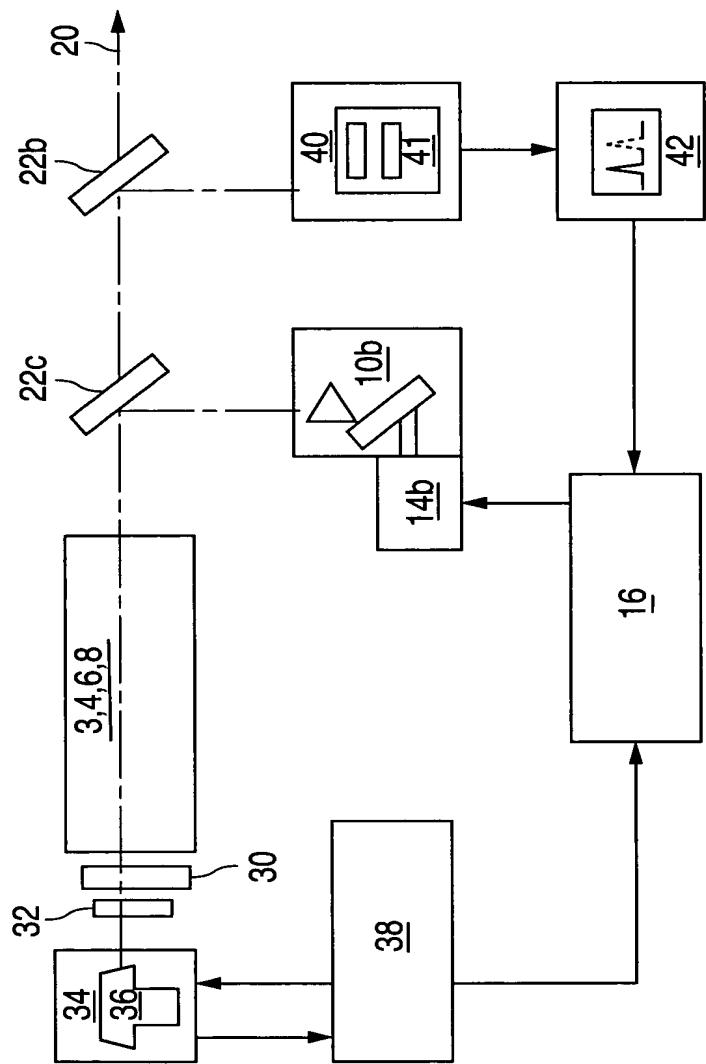


FIG. 1



Scheme of the laser system including the apparatus and processing for absolute wavelength calibration

3,4,6,8	laser chamber, pulser, gas handling power supply	14b	motor drive for wavelength shift
34	wavelength calibration tool containing absorbing element	40	wavelength monitoring
38	signal processing and driving source for 2 gas cell	42	display for wavelength
16	main processing and data recording	22b,22c	beam splitters
106	line narrowing and tuning block	30	polarizer
		36	gaseous element
		20	narrow-band output beam

FIG. 2

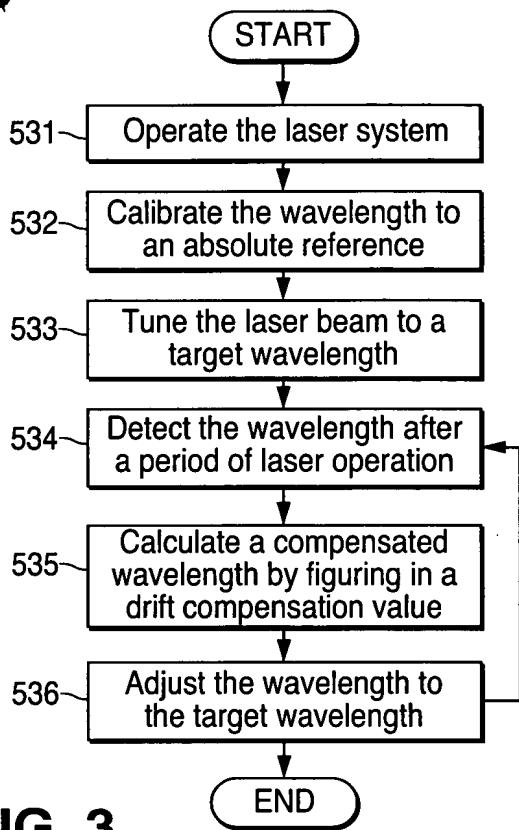


FIG. 3

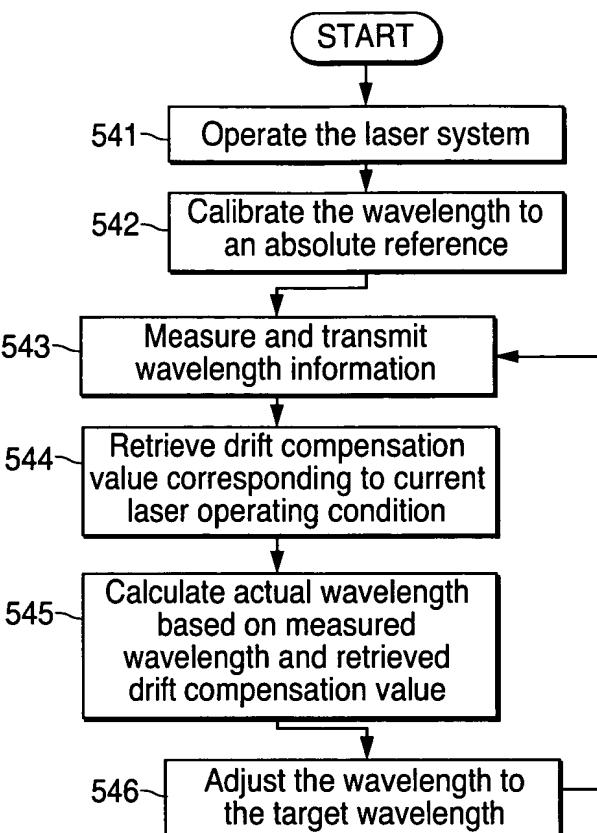


FIG. 4

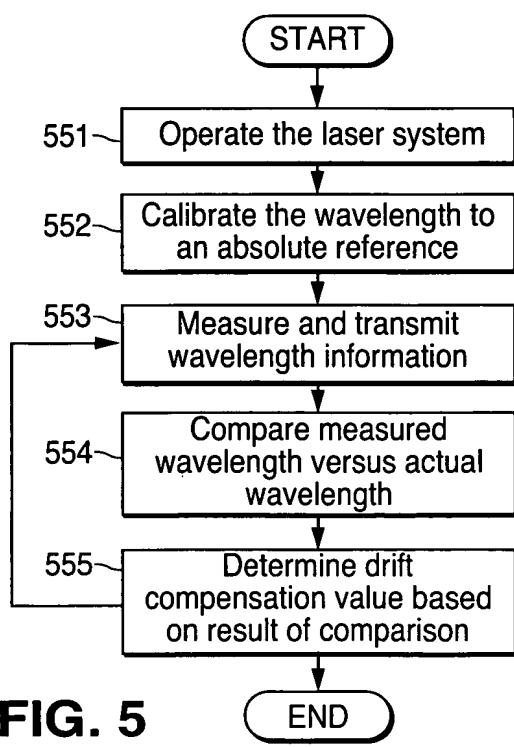


FIG. 5

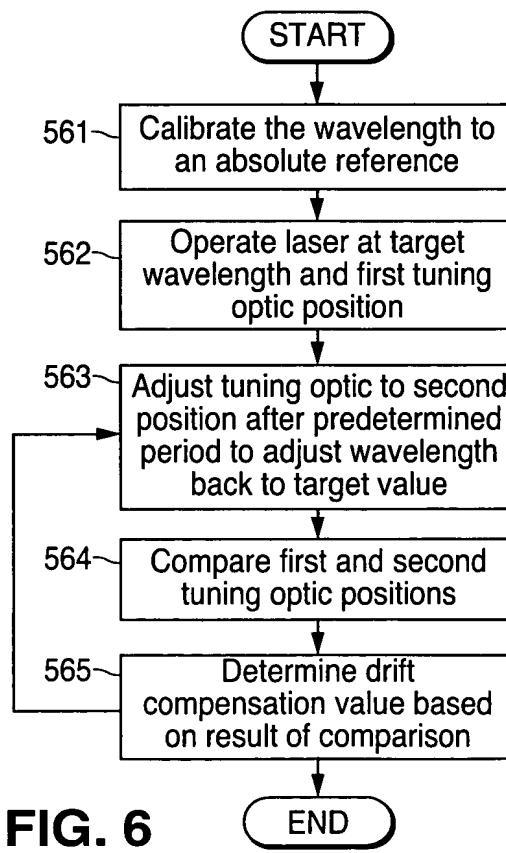


FIG. 6



Wavelength Drifts											
Pre	6464	6462	6459	6480	6461	6457	6458	6094	6102	6105	6104
Start	-0.02	-0.01	-0.01	0.01	0	-0.01	-0.03	-0.05	0.05	-0.01	0.01
Full1	0.03	-0.02	-0.11	-0.01	-0.05	-0.02	-0.09	-0.07	0	0.03	0
Full2	0	-0.07	-0.06	-0.04	-0.1	-0.03	-0.12	-0.13	-0.01	-0.06	-0.9
Full3	0.01	-0.02	0	0	-0.04	-0.02	-0.14	-0.13	-0.03	-0.01	-0.1
Full4	0	-0.07	-0.05	-0.02	-0.1	-0.02	-0.18	-0.17	-0.05	0	-0.16
Final	0.01	-0.06	0.03	-0.07	-0.16	0.09	-0.18	-0.13	-0.12	0	-0.17
Post	-0.1	-0.01	0.01	-0.14	-0.2	0.08	-0.17	-0.22	-0.2	-0.07	-0.23
Diff:	-0.04	0.05	0.07	-0.08	-0.25	0.12	-0.18	-0.21	-0.19	0.08	-0.23
Diff GLD:											
Good tendency											

FIG. 7